

LAMPIRAN II

PLANNED MAINTENANCE SCHEDULE ENGINE DEPARTEMENT

Vessel Name : **MV. BENTE**

Period: March 2016

Symbol : S Scheduled Maintenance
C Completed Maintenance

***IF MAINTENANCE/ CHECKING IS NOT CARRY OUT, OR NO SUCH ITEM FOR YOUR VESSEL , PLEASE LEAVE THE COLUMN EMPTY.*

s/n	Item	Date of last Maintenance	Maintenance		Interval		Est. Next Maintenance	Last CMS	Next CMS Due	Maintenance Carried Out												YEAR		2016	
			Months	Run Hours	Months	Hours				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec				
	Last Month M/E Total Running Hours	76752.2																							
	This Month Running Hours	328.1																							
	Current Total Running Hours	77080.3																							
	Main Engine																								
	Cylinder/ Piston (2-stroke) Overhauling																								
1	O/H Cylinder/ Piston including Stuff Box #1 Unit	17-Nov-15	4	920.3	24	8000 hrs	17-Nov-17	Dec-15	Nov-20																
2	O/H Cylinder/ Piston including Stuff Box #2 Unit	6-Dec-15	3	872.3	24	8000 hrs	06-Dec-17	Dec-15	Nov-20																
3	O/H Cylinder/ Piston including Stuff Box #3 Unit	19-Nov-15	4	920.3	24	8000 hrs	19-Nov-17	Dec-15	Nov-20																
4	O/H Cylinder/ Piston including Stuff Box #4 Unit	29-Nov-15	4	872.3	24	8000 hrs	29-Nov-17	Dec-15	Nov-20																
5	O/H Cylinder/ Piston including Stuff Box #5 Unit	26-Nov-15	4	872.3	24	8000 hrs	26-Nov-17	Dec-15	Nov-20																
6	O/H Cylinder/ Piston including Stuff Box #6 Unit	1-Dec-15	3	872.3	24	8000 hrs	01-Dec-17	Dec-15	Nov-20																
	Exhaust Valve																								
7	Replace/ Maintenance of Exhaust Valve of #1	25-Jun-15	9	2044.3	12	4000 hrs	25-Jun-16								S										
8	Replace/ Maintenance of Exhaust Valve of #2	6-Dec-15	3	872.3	12	4000 hrs	06-Dec-16																	S	
9	Replace/ Maintenance of Exhaust Valve of #3	3-Sep-15	6	1364.3	12	4000 hrs	03-Sep-16											S							
10	Replace/ Maintenance of Exhaust Valve of #4	29-Nov-15	4	872.3	12	4000 hrs	29-Nov-16														S				
11	Replace/ Maintenance of Exhaust Valve of #5	26-Nov-15	4	872.3	12	4000 hrs	26-Nov-16														S				
12	Replace/ Maintenance of Exhaust Valve of #6	2-Dec-15	3	872.3	12	4000 hrs	02-Dec-16																	S	
	Fuel Pump																								
13	O/H of Fuel Pump #1	25-Nov-15	4	872.3	60	8000 hrs	25-Nov-20																		
14	O/H of Fuel Pump #2	25-Nov-15	4	872.3	60	8000 hrs	25-Nov-20																		
15	O/H of Fuel Pump #3	25-Nov-15	4	872.3	60	8000 hrs	25-Nov-20																		
16	O/H of Fuel Pump #4	25-Nov-15	4	872.3	60	8000 hrs	25-Nov-20																		
17	O/H of Fuel Pump #5	25-Nov-15	4	872.3	60	8000 hrs	25-Nov-20																		
18	O/H of Fuel Pump #6	25-Nov-15	4	872.3	60	8000 hrs	25-Nov-20																		
	Fuel Injector																								
19	O/H of Fuel Injector #1	25-Nov-15	4	872.3	10	2000 hrs	25-Sep-16											S							
20	O/H of Fuel Injector #2	25-Nov-15	4	872.3	10	2000 hrs	25-Sep-16											S							
21	O/H of Fuel Injector #3	25-Nov-15	4	872.3	10	2000 hrs	25-Sep-16											S							
22	O/H of Fuel Injector #4	25-Nov-15	4	872.3	10	2000 hrs	25-Sep-16											S							
23	O/H of Fuel Injector #5	25-Nov-15	4	872.3	10	2000 hrs	25-Sep-16											S							
24	O/H of Fuel Injector #6	25-Nov-15	4	872.3	10	2000 hrs	25-Sep-16											S							
	Starting Air Valve																								
25	O/H of Starting Air Valve #1	17-Nov-15	4	920.3	22	8000 hrs	17-Sep-17																		
26	O/H of Starting Air Valve #2	6-Dec-15	3	872.3	22	8000 hrs	06-Oct-17																		
27	O/H of Starting Air Valve #3	19-Nov-15	4	920.3	22	8000 hrs	19-Sep-17																		
28	O/H of Starting Air Valve #4	29-Nov-15	4	872.3	22	8000 hrs	29-Sep-17																		
29	O/H of Starting Air Valve #5	26-Nov-15	4	872.3	22	8000 hrs	26-Sep-17																		
30	O/H of Starting Air Valve #6	1-Dec-15	3	872.3	22	8000 hrs	01-Oct-17																		

PLANNED MAINTENANCE SCHEDULE

s/n	Item	Date of last Maintenance	Maintenance		Interval		Est. Next Maintenance	Last Surveyed	Next CMS Due	Maintenance Carried Out								YEAR		2016			
			Months	Run Hours	Months	Hours				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
	Main Bearing																						
31	#1 Main Bearing Inspection	1-Oct-13	29	8021.3	60	5 years	01-Oct-18	Feb-16	Feb-21														
32	#2 Main Bearing Inspection	10-Apr-12	47	12971.3	60	5 years	10-Apr-17	Feb-16	Feb-21														
33	#3 Main Bearing Inspection	15-Jan-12	50	13796.3	60	5 years	15-Jan-17	Feb-13	Feb-18														
34	#4 Main Bearing Inspection	25-Jun-13	33	9121.3	60	5 years	25-Jun-18	Feb-16	Feb-21														
35	#5 Main Bearing Inspection	30-May-11	58	15996.3	60	5 years	30-May-16	Feb-13	Feb-18					S									
36	#6 Main Bearing Inspection	15-Jun-13	33	9121.3	60	5 years	15-Jun-18	Feb-16	Feb-21														
37	#7 Main Bearing Inspection	20-Jun-13	33	9121.3	60	5 years	20-Jun-18	Feb-16	Feb-21														
	Crankpin or Bottom End Bearing																						
38	Check Crank Pin Metal & Con Rod of #1	10-Jan-12	50	13796.3	60	5 years	10-Jan-17	Feb-16	Feb-21														
39	Check Crank Pin Metal & Con Rod of #2	15-Jan-12	50	13796.3	60	5 years	15-Jan-17	Feb-16	Feb-21														
40	Check Crank Pin Metal & Con Rod of #3	20-Jan-12	50	13796.3	60	5 years	20-Jan-17	Feb-16	Feb-21														
41	Check Crank Pin Metal & Con Rod of #4	25-Oct-13	29	8021.3	60	5 years	25-Oct-18	Feb-16	Feb-21														
42	Check Crank Pin Metal & Con Rod of #5	30-May-11	58	15996.3	60	5 years	30-May-16	Feb-16	Feb-21					S									
43	Check Crank Pin Metal & Con Rod of #6	10-Oct-13	29	8021.3	60	5 years	10-Oct-18	Feb-16	Feb-21														
	Crosshead Bearing																						
44	Crosshead Bearing Inspection of #1	10-Apr-12	47	12971.3	60	5 years	10-Apr-17	Feb-16	Feb-21														
45	Crosshead Bearing Inspection of #2	15-Jun-13	33	9111.3	60	5 years	15-Jun-18	Feb-16	Feb-21														
46	Crosshead Bearing Inspection of #3	18-Oct-13	29	8021.3	60	5 years	18-Oct-18	Feb-16	Feb-21														
47	Crosshead Bearing Inspection of #4	28-Oct-13	29	8021.3	60	5 years	28-Oct-18	Feb-16	Feb-21														
48	Crosshead Bearing Inspection of #5	29-May-11	58	15996.3	60	5 years	29-May-16	Feb-16	Feb-21					S									
49	Crosshead Bearing Inspection of #6	13-Jun-13	33	9121.3	60	5 years	13-Jun-18	Feb-16	Feb-21														
	Miscellaneous Main Engine Items																						
50	Scavenging Space Cleaning	27-Feb-16	1		3	Quarterly	27-May-16				C			S			S					S	
51	Check Exhaust Manifold for broken rings etc	16-Feb-16	1		3	Quarterly	16-May-16				C			S			S					S	
52	Scavenge Inspection of Piston Rings & Liner Condition	27-Feb-16	1		3	Quarterly	27-May-16				C			S			S					S	
53	Checking of Crankcase Door & Relief Device	18-Feb-16	1		30	2.5 years	18-Aug-18				C												
53	Checking of Starting Air Distributor	10-Jan-16	2		30	2.5 years	10-Jul-18				C												
54	Checking & Adjustment of Chain Tension				12	5,000hrs	31-Dec-00																
55	O/H Governor	16-Feb-12	49		60	5 years	16-Feb-17																
56	Governor Lube-Oil Change	27-Feb-16	1		12	Yearly	27-Feb-17				C												
57	L.O Sump Tank Cleaning & L.O Purified	16-Oct-14	17		30	2.5 years	16-Apr-17																
	Pls indicate * for L.O renewal																						
58	Checking of Maneuvering Gear Moving Parts	3-Dec-15	3		6	6 monthly	03-Jun-16								S								S
59	Crankcase Inspection & Int. Bolt Tightness Check	4-Feb-16	1		3	Quarterly	04-May-16				C			S			S					S	
60	Checking of Crankshaft Deflection	5-Dec-15	3		6	6 monthly	05-Jun-16								S								S
61	Checking of Pneumatic Starting System of M/E	10-Dec-15	3		60	5 years	10-Dec-20																
62	Checking of Cam Shaft Driving Gear of M/E	12-Dec-15	3		30	2.5 years	12-Jun-18	Feb-16	Jan-21														
	Main Engine Turbo Chargers / Air Coolers																						
63	O/H Turbo Charger	1-Dec-15	3	872.3	28	10,000 hrs	01-Apr-18	Feb-16	Jan-21														
64	Checking of Silencer & Air Filter Unit of T/C	8-Mar-16	0		3	5,000 hrs	08-Jun-16					C			S			S					S
65	Chemical Cleaning of Air side of Air Cooler Unit	3-Dec-15	3		30	2.5 years	03-Jun-18	Feb-16	Jan-21														
66	Cleaning of water side of Air Cooler	4-Dec-15	3		10	10 Monthly	04-Oct-16														S		

68	M/E Electric Driven Forward Scavenge Blower	11-Dec-15	3		60	5 years	11-Dec-20	Jan-16	Dec-20											
69	M/E Electric Driven Aft. Scavenge Blower	12-Dec-15	3		60	5 years	12-Dec-20	Jan-16	Dec-20											

PLANNED MAINTENANCE SCHEDULE

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			Months	Run Hours	Months	Hours				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
	Main Gear, Shafting, Stern Bush & Propeller																							
70	Intermediate Shaft & Bearings Inspection & Survey	29-Sep-13	30		60	5 years	29-Sep-18	Jan-16	Dec-20															
71	Propeller Shaft & Bearing Inspection	29-Sep-13	30		60	5 years	29-Sep-18	Jan-16	Dec-20															
72	Thrust Bearing & Shaft Survey	29-Sep-13	30		60	5 years	29-Sep-18	Jan-16	Dec-20															
73	Stern Tube Seals & Lube-oil Renewal	29-Sep-13	30		60	5 years	29-Sep-18	Jan-16	Dec-20															
	Diesel Generator #1																							
	Last Month Total Running Hours	1033																						
	This Month Running Hours	550																						
	Current Total Running Hours	1583																						
74	Complete O/H	28-Dec-15	3	1583	24	10,000 hrs	28-Dec-17	Jan-16	Dec-20															
75	Fuel Pump O/H	28-Dec-15	3	1583	24	10,000 hrs	28-Dec-17																	
76	Crankpin Bearings Inspection/ Renewal	28-Dec-15	3	1583	24	10,000 hrs	28-Dec-17																	
78	Main Bearings Inspection/ Renewal	28-Dec-15	3	1583	24	10,000 hrs	28-Dec-17																	
79	Cylinder Head O/H	28-Dec-15	3	1583	12	5,000 hrs	28-Dec-16																	S
80	Cleaning of Lube Oil Cooler	28-Dec-15	3		6	3,000 hrs	28-Jun-16								S									S
81	Cleaning of Air Cooler	28-Dec-15	3		8	4,000 hrs	28-Aug-16											S						
82	Cleaning of Oil Sump/ Lube-oil Renewal	28-Dec-15	3	1583	6	3,000 hrs	28-Jun-16								S									S
83	Tappet Clearance Check & Adjustment	28-Dec-15	3		4	2,000 hrs	28-Apr-16					S					S							S
84	Fuel Injector O/H	28-Dec-15	3	1583	4	2,000hrs	28-Apr-16					S					S							S
85	Crankcase Inspection	28-Dec-15	3		6	3,000 hrs	28-Jun-16								S									S
86	Governor Complete Servicing	28-Dec-15			30	2.5 years	28-Jun-18																	
87	Checking of Crankshaft Deflection	28-Dec-15	3		6		28-Jun-16								S									S
89	Alternator - Chemical Cleaning	28-Dec-15						Jan-16	Dec-20															
	Alternator - Checking of L.O of Plumer Block	28-Dec-15																						
	A/E Turbo Charger #1																							
91	Complete O/H	28-Dec-15	3	1583	20	10,000 hrs	28-Aug-17																	
92	Turbo Oil Change	28-Dec-15																						
	Diesel Generator #2																							
	Last Month Total Running Hours	0																						
	This Month Running Hours	0																						
	Current Total Running Hours	0																						
93	Complete O/H	30-Mar-16	0	0	20	10,000 hrs	30-Nov-17	Jan-16	Dec-20			C												
94	Fuel Pump O/H	30-Mar-16	0	0	20	10,000 hrs	30-Nov-17					C												
95	Crank Pin Bearings Inspection/ Renewal	30-Mar-16	0	0	20	10,000 hrs	30-Nov-17					C												
96	Main Bearings Inspection/ Renewal	30-Mar-16	0	0	26	12,000 hrs	30-May-18					C												
97	Cylinder Head O/H	30-Mar-16	0	0	12	5,000 hrs	30-Mar-17					C												
98	Cleaning of Lube Oil Cooler	30-Mar-16	0		6	3,000 hrs	30-Sep-16					C						S						
99	Cleaning of Air Cooler	30-Mar-16	0		8	4,000 hrs	30-Nov-16					C									S			
100	Cleaning of Oil Sump / Lube-oil Renewal	30-Mar-16	0	0	6	3,000 hrs	30-Sep-16					C						S						
101	Tappet Clearance Check & Adjustment	30-Mar-16	0		4	2,000 hrs	30-Jul-16					C				S								
102	Fuel Injector O/H	30-Mar-16	0	0	4	2,000 hrs	30-Jul-16					C				S								
103	Crankcase Inspection	30-Mar-16	0	0	6	3,000 hrs	30-Sep-16					C						S						
104	Governor Complete Servicing	30-Mar-16			30	2.5 years	30-Sep-18					C												
105	Checking of Crankshaft Deflection	30-Mar-16	0		6		30-Sep-16					C						S						
106	Alternator - Chemical Cleaning	30-Mar-16			12		30-Mar-17	Jan-16	Dec-20			C												
107	Alternator - Checking of L.O of Plumer Block	30-Mar-16			6		30-Sep-16					C						S						

	A/E Turbo Charger #2																			
108	Complete O/H	30-Mar-16		0	20	10,000 hrs	30-Nov-17													
109	Turbo Oil Change	30-Mar-16		0	20	10,000 hrs	30-Nov-17													

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			Months	Run Hours	Months	Hours				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec				
	Diesel Generator #3																								
	Last Month Total Running Hours	1941																							
	This Month Running Hours	610																							
	Current Total Running Hours	2551																							
110	Complete O/H	1-Nov-15	4	2551	20	10,000 hrs	01-Jul-17	Feb-16	Jan-21																
111	Fuel Pump O/H	1-Nov-15	4	2551	20	10,000 hrs	01-Jul-17																		
112	Crankpin Bearings Inspection/ Renewal	1-Nov-15	4	2551	20	10,000 hrs	01-Jul-17																		
113	Main Bearings Inspection/ Renewal	1-Nov-15		2551	26	12,000 hrs	01-Jan-18																		
114	Cylinder Head O/H	1-Nov-15	4	2551	10	5,000 hrs	01-Sep-16											S							
115	Cleaning of Lube Oil Cooler	1-Nov-15	4	2551	6	3,000 hrs	01-May-16							S						S					
116	Cleaning of Air Cooler	1-Nov-15	4	2551	8	4,000 hrs	01-Jul-16									S									
117	Cleaning of Oil Sump/ Lube-oil Renewal	1-Nov-15	4	2551	6	3,000 hrs	01-May-16							S							S				
118	Tappet Clearance Check & Adjustment	1-Jan-16	2	1941	4	2,000 hrs	01-May-16			C				S				S							
119	Fuel Injector O/H	1-Jan-16	2	1941	4	2,000 hrs	01-May-16			C				S				S							
120	Governor Oil Change	N/A			3	1,500 hrs																			
121	Crankcase Inspection	15-Mar-16	0		6	3,000 hrs	15-Sep-16					C						S							
122	Governor Complete Servicing	15-Nov-15			30	2.5 years	15-May-18																		
123	Checking of Crankshaft Deflection	15-Mar-16	0	347	6		15-Sep-16					C													
124	Alternator - Chemical Cleaning	16-Dec-15						Jan-16	Dec-20																
125	Alternator - Checking of L.O of Plumer Block	15-Mar-16										C													
	A/E Turbo Charger #3																								
126	Complete O/H	1-Nov-15	4	2551	20	10,000 hrs	01-Jul-17																		
127	Turbo Oil Change	1-Nov-15		2551																					
	Aux.Boiler & EGE																								
128	Aux.Boiler & Mountings Survey	22-Dec-15	3		30	2.5 years	22-Jun-18	Feb-16	Jan-21																
129	Aux Boiler Draught Fan	22-Dec-15	3		30	2.5 years	22-Jun-18	Feb-16	Jan-21																
130	Aux Boiler Oil Burning Aparatus & Device	21-Jan-16	2		3	Quarterly	21-Apr-16			C			S			S			S						
131	EGE Internal Examination & Mounting Survey	22-Dec-15	3		30	2.5 years	22-Jun-18	Feb-16	Jan-21																
132	Cleaning of Gas side of Generating Pipe of EGE	22-Dec-15	3		6	6-Monthly	22-Jun-16								S							S			
	No.1 Main Air Compressors																								
133	Complete O/H of #1 Air Compressor	2-Mar-16	0		30	2.5 years	02-Sep-18	Feb-16	Jan-21			C													
134	H.P. and L.P. Valve Replace	2-Mar-16	0		3		02-Jun-16					C			S			S				S			
135	Crankcase L.O. Renew	2-Mar-16	0		3		02-Jun-16					C			S			S				S			
	No.2 Main Air Compressors																								
136	Complete O/H of #2 Air Compressor	6-Mar-16	0		30	2.5 years	06-Sep-18	Feb-16	Jan-21			C													
137	H.P. and L.P. Valve Replace	6-Mar-16	0		3		06-Jun-16					C			S			S				S			
138	Crankcase L.O. Renew	6-Mar-16	0		3		06-Jun-16					C			S			S				S			
	Control Service Air Compressors																								
139	Complete O/H of Control Air Compressor	N/A			30	2.5 years	#VALUE!																		
140	H.P. and L.P. Valve Replace	N/A			3																				
141	Crankcase L.O. Renew	N/A			3																				
	Separators																								
142	Complete O/H of F/O Purifier #1	11-Mar-16	0		3	Quarterly	11-Jun-16					C			S			S				S			

143	Complete O/H of F/O Purifier #2	15-Mar-16	0		3	Quarterly	15-Jun-16					C			S			S			S
144	Complete O/H of L/O Purifier #1	12-Mar-16	0		3	Quarterly	12-Jun-16					C			S			S			S
145	Complete O/H of L/O Purifier #2	30-Mar-16	0		3	Quarterly	30-Jun-16					C			S			S			S

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			Months	Run Hours	Months	Hours				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Coolers																							
146	Cleaning of M/E Lube Oil Cooler	27-Dec-15	3		6	6 monthly	27-Jun-16	Jan-16	Dec-20							S					S		
147	Cleaning of Cam Shaft L.O. Cooler	27-Dec-15	3		6	"	27-Jun-16	Feb-10	Feb-15							S					S		
148	Cleaning of M/E Jacket FW Cooler	28-Dec-15	3		6	"	28-Jun-16	Feb-16	Jan-21							S					S		
149	Cleaning of Air Compressor Cooling FW Cooler	28-Dec-15	3		6	"	28-Jun-16									S					S		
150	Cleaning of Aux Engine Cooling FW Cooler N0.1	28-Dec-15	3		6	"	28-Jun-16	Jun-14	Jun-19							S					S		
151	Cleaning of Aux Engine Cooling FW Cooler N0.2	28-Dec-15	3		6	"	28-Jun-16	Apr-12	Apr-17							S					S		
152	Cleaning of Atmosfer Steam Condenser	25-Jan-16	2		6	"	25-Jul-16	Jan-16	Dec-20	C							S						
153	Cleaning of Accom.Air Conditioner Condenser	20-Mar-16	0		3	Quarterly	20-Jun-16					C				S			S		S		
154	Cleaning of #1 Prov.Refrigerator Condenser	20-Mar-16	0		3	Quarterly	20-Jun-16					C				S			S		S		
155	Cleaning of #2 Prov.Refrigerator Condenser	20-Mar-16	0		3	Quarterly	20-Jun-16					C				S			S		S		
156	Cleaning of FW Generator Condenser	Malfunction	#VALUE!		6	6 monthly	#VALUE!																
Pumps																							
157	O/H of M/E L/O Pump #1	12-Dec-15	3		60	5 years	12-Dec-20	Feb-16	Jan-21														
158	O/H of M/E Cam Shaft LO Pump #1	15-Dec-15	3		60	5 years	15-Dec-20	Feb-16	Jan-21														
159	O/H of S/T L.O. Circ Pump #1	12-Dec-15	3		60	5 years	12-Dec-20	Feb-16	Jan-21														
160	O/H of M/E Jacket FW Cooling Pump #1	10-Dec-15	3		60	5 years	10-Dec-20	Feb-16	Jan-21														
161	O/H of M/E Cool SW Pump #1	14-Dec-15	3		60	5 years	14-Dec-20	Feb-16	Jan-21														
162	O/H of M/E F.O. Supply Pump (FO Booster) # 1	12-Dec-15	3		60	5 years	12-Dec-20																
163	O/H of M/E FO Circulating Pump #1	10-Dec-15	3		60	5 years	10-Dec-20																
164	O/H of G/E F.O. Supply Pump (FO Booster) # 1	11-Dec-15	3		60	5 years	11-Dec-20																
165	O/H of Boiler Water Circulating Pump #1	8-Dec-15	3		60	5 years	08-Dec-20	Oct-11	Sep-16														
166	O/H of Boiler Feed Water Pump #1	15-Dec-15	3		60	5 years	15-Dec-20	Jan-16	Dec-20														
167	O/H of Air Cond CSW Pump #1	5-Dec-15	3		60	5 years	05-Dec-20																
168	O/H of FW Domestic Pump #1	10-Dec-15	3		60	5 years	10-Dec-20																
169	O/H of M/E L/O Pump #2	10-Dec-15	3		60	5 years	10-Dec-20	Apr-12	Apr-17														
170	O/H of M/E Cam Shaft LO Pump #2	5-Dec-15	3		60	5 years	05-Dec-20	Feb-16	Jan-21														
171	O/H of S/T L.O. Circ Pump #2	Nil			60	5 years	#VALUE!	Feb-16	Jan-21														
172	O/H of M/E Jacket FW Cooling Pump #2	17-Aug-14	19		60	5 years	17-Aug-19	Oct-11	Sep-16														
173	O/H of M/E Cool SW Pump #2	2-Dec-15	3		60	5 years	02-Dec-20	Feb-16	Jan-21														
174	O/H of M/E F.O. Supply Pump (FO Booster) # 2	24-May-13	34		60	5 years	24-May-18																
175	O/H of M/E FO Circulating Pump #2	10-Jul-14	20		60	5 years	10-Jul-19																
176	O/H of G/E F.O. Supply Pump (FO Booster) # 2	24-Aug-14	19		60	5 years	24-Aug-19																
177	O/H of Boiler Water Circulating Pump #2	10-Dec-15	3		60	5 years	10-Dec-20	Oct-11	Sep-16														
178	O/H of Boiler Feed Water Pump #2	15-Dec-15	3		60	5 years	15-Dec-20	Jan-16	Dec-20														
179	O/H of FW Domestic Pump #2	20-Dec-15	3		60	5 years	20-Dec-20																
180	O/H of Port Use Cool SW Pump	12-Dec-15	3		60	5 years	12-Dec-20																
181	O/H of Ballast Pump	5-Dec-15	3		60	5 years	05-Dec-20	Jan-16	Dec-20														
182	O/H of Fire & GS Pump	10-Dec-15	3		60	5 years	10-Dec-20	Jan-16	Dec-20														
183	O/H of Bilge & Ballast Pump	12-Dec-15	3		60	5 years	12-Dec-20	Feb-16	Jan-21														
184	O/H of Bilge Pump	8-Dec-15	3		60	5 years	08-Dec-20																
185	O/H of Sludge Pump	2-Dec-15	3		60	5 years	02-Dec-20																
186	O/H of Fuel Oil Transfer Pump	10-Oct-14	17		60	5 years	10-Oct-19	Jan-16	Dec-20														
187	O/H of Diesel Oil Transfer Pump	24-May-14	22		60	5 years	24-May-19																
188	O/H of Lube Oil Transfer Pump	10-Oct-14	17		60	5 years	10-Oct-19																
189	O/H of FW Generator Ejector Pump	17-Dec-14																					

PLANNED MAINTENANCE SCHEDULE

s/n	Item	Date of last Maintenance	Maintenance		Interval		Est. Next Maintenance	Last Surveyed	Next CMS Due	Maintenance Carried Out								YEAR				2016	
			Months	Run Hours	Months	Hours				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
	Heaters																						
190	Checking of M/E FO Heater	15-Apr-11	59		60	5 years	15-Apr-16	Apr-13	Apr-18				S										
191	Checking of Purifier FO Heater	10-Apr-11	59		60	5 years	10-Apr-16						S										
192	Checking of Purifier LO Heater	4-Apr-11	59		60	5 years	04-Apr-16	Jan-16	Dec-20				S										
193	Checking of Oil Side of Boiler FO Heater	15-Dec-15	3		60	5 years	15-Dec-20																
	Main Air Reservoirs																						
195	Int. Cleaning of Main Air Reservoir #1 & Survey	9-Oct-13	29		60	5 years	09-Oct-18	Feb-16	Jan-21														
196	Int. Cleaning of Main Air Reservoir #2 & Survey	9-Oct-13	29		60	5 years	09-Oct-18	Feb-16	Jan-21														
197	Int. Cleaning of Aux Air Reservoir & Survey	9-Oct-13	29		60	5 years	09-Oct-18	Feb-13	Feb-18														
	Oily Water Separator																						
198	O/H of OWS	20-Dec-15	3		30	2.5 years	20-Jun-18																
199	Cleaning & General Checking of Externally for Leakage	12-Feb-16	1		3	Quarterly	12-May-16				C			S			S				S		
200	Filters Cleaning and Examination of all Internal Parts	20-Dec-15	3		12	1 year	20-Dec-16																
	Safety Equipment - FFA & LSA																						
201	Inspection of Emergency Fire Pump	20-Feb-16	1		3	Quarterly	20-May-16				C			S			S				S		
202	Inspection of D/E for Emergency Generator	20-Feb-16	1		3	Quarterly	20-May-16	Feb-16	Jan-21		C			S			S				S		
203	Inspection of Life Boat Engine (PS)	20-Feb-16	1		3	Quarterly	20-May-16				C			S			S				S		
204	Inspection of Life Boat Engine (stb)	20-Feb-16	1		3	Quarterly	20-May-16				C			S			S				S		
	INSPECTION OF DECK MACHINERY																						
205	No.1 Hydraulic Pump for Windlass /Mooring Winch	20-Jan-11	62		60	5 years	20-Jan-16	Feb-16	Jan-21														
206	No.2 Hydraulic Pump for Windlass /Mooring Winch	20-Jan-11	62		60	5 years	20-Jan-16	Feb-16	Jan-21														
207	Windlass	20-Jan-11	62		60	5 years	20-Jan-16	Feb-16	Jan-21														
208	Mooring Winch	20-Jan-11	62		60	5 years	20-Jan-16	Feb-16	Jan-21														
	Steering Gear																						
209	O/H of Steering Machineries Hydraulic Pump # 1	10-Dec-15	3		60	5 years	10-Dec-20	Feb-16	Jan-21														
210	O/H of Steering Machineries Hydraulic Pump # 2	10-Dec-15	3		60	5 years	10-Dec-20	Feb-16	Jan-21														
210	Steering Gear Greasing	10-Feb-16	1		3	Quarterly	10-May-16				C			S			S				S		
211	System Operational Testing	10-Feb-16	1		3	Quarterly	10-May-16				C			S			S				S		

FLOOR MRTINUS de FRUGH

Chief Engineer

ALEXEY KUDRIN

Master

SHAAK van GALL

Technical Superintendent